

Mouse PEA-15 Monoclonal Antibody | anti-PEA-15 antibody

PEA-15

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA76639	Mouse	Human, Mouse, Rat, Bovine	Immunofluorescence, Western Blot, Immunocytochemistry

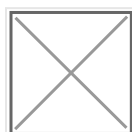
PRODUCT SYNONYMS

PEA-15; Monoclonal Antibody; anti-PEA-15 antibody

PRODUCT SPECIFICATIONS

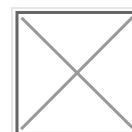
Host	Mouse
Reactivity	Human, Mouse, Rat, Bovine
Clonality	Monoclonal
Isotype	Mouse IgG
Form/Format	Affinity Purified antibody Liquid. Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3
Applicable Applications for anti-PEA-15 antibody	IF (Immunofluorescence), WB (Western Blot), ICC (Immunocytochemistry)
Immunogen	Full length human PEA-15 as expressed in and purified from E Coli
Preparation and Storage	Antibody can also be aliquotted and stored frozen at -20 degree C in a manual defrost freezer for six months without detectable loss of activity. The antibody is stable at 2-8 degree C for 1 year. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of different tissue lysates using mouse mAb to protein PEA-15, dilution 1:1,000 in green: [1] protein standard (red), [2] rat whole brain, [3] rat cerebellum, [4] mouse whole brain, [5] cow cortex and [6] cow cerebellum. The single strong band at about 15kDa corresponds to the PEA-15 protein.



IF (Immunofluorescence)

Immunofluorescent analysis of rat brain section stained with mouse mAb to PEA-15, MO22197, dilution 1:1,000 in red, and costained with rabbit pAb to GFAP, dilution 1:5,000 in green. The blue is Hoechst staining of nuclear DNA.

ADDITIONAL INFORMATION

Related Product Information for anti-PEA-15 antibody

PEA-15 was originally isolated as a major low molecular weight of embryonic mouse striatal astrocytes grown in cell culture. Three spots on 2D gels with an apparent molecular weight of 15kDa and isoelectric point 5.1-5.3 were shown to be different forms of one protein. The protein was serine phosphorylated on one site by protein kinase C both in vivo and in vitro and the protein was named "phosphoprotein enriched in astrocytes of 15kDa", hence PEA-15. Subsequent cloning and sequencing revealed a protein well conserved in sequence between mouse and human and which was heavily expressed in brain. Independently the same protein was found to be upregulated in fibroblasts and tissues of diabetic patients, and has hence named "protein enriched in diabetes" or PED. Immunocytochemical studies showed that the protein was heavily expressed in astrocytes and certain neurons in the CNS of mice, though it is expressed at lower levels ubiquitously. PEA-15 was shown to interact with extracellular signal regulated kinase and regulate the nuclear entry of this protein, and several other important interactions with other proteins involved in regulation of apoptosis, glucose metabolism and cell growth have been described. MCA-4D2 was made against a recombinant full length PEA-15 construct expressed in and purified from E Coli.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505705
NCBI GeneID	8682
NCBI Accession #	NP_003759.1
NCBI GenBank Nucleotide #	NM_003768.3
UniProt Accession #	Q15121; O00511
Molecular Weight	15,040 Da
NCBI Official Full Name	astrocytic phosphoprotein PEA-15
NCBI Official Synonym Full Names	phosphoprotein enriched in astrocytes 15
NCBI Official Symbol	PEA15
NCBI Official Synonym Symbols	PED; MAT1; HMAT1; MAT1H; PEA-15; HUMMAT1H
NCBI Protein Information	astrocytic phosphoprotein PEA-15; homolog of mouse MAT-1 oncogene; phosphoprotein enriched in diabetes; Phosphoprotein enriched in astrocytes, 15kD; 15 kDa phosphoprotein enriched in astrocytes
UniProt Protein Name	Astrocytic phosphoprotein PEA-15
UniProt Gene Name	PEA15
UniProt Synonym Gene Names	PED
UniProt Entry Name	PEA15_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/pea-15-antibody-immunofluorescence-western-blot-immunocytochemistry-elisa/76639>